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(54) Title: METHOD FOR DETERMINING THE THREE-DIMENSIONAL SURFACE OF AN OBJECT

(57) Abstract: The present invention refers to a method for determining the threedimensional surface of an object. In an embodiment thereof the method for determining the three-dimensional surface of an object comprises the phases of: defining (1) the coordinates of a plurality of points of said object; defining (2) a three-dimensional matrix of cells that contains said object to which a value can be associated; determining (3) the distance between each centre of said cells of said three-dimensional matrix of cells and the closest point of said plurality of points of said object; setting (4) the value of several cells of said three-dimensional matrix of cells at a first preset value; determining (7) the value that each cell of said three-dimensional matrix of cells assumes, with the exception of said several cells, by means of the following formula (I). Where formula (Ia) represents the coordinates of the centre of the i_th cell, formula (Ib) represents the value of the i_th cell at time t, v_i represents said distance, w represents a second preset value, and j indicates a neighbourhood of cells of the i_th cell; determining (9) the sum in module of the variations of the value of each cell between the time t and the time t+1; repeating (10) said phase of determining the value that each cell of said three-dimensional matrix of cells assumes if said sum is greater than a third preset value.

